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ANNOUNCEMENT

OF THE

DENTAL SCHOOL

LONGWOOD AVENUE, BOSTON, MASS.

OF

HARVARD UNIVERSITY

1931-32

WITH AN ANNOUNCEMENT FOR 1932–33

CAMBRIDGE
PUBLISHED BY THE UNIVERSITY
1931

1931

JULY

Su	Mo	Tu	W	Th	Fr	Sa
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AUGUST

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SEPTEMBER

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NOVEMBER

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DECEMBER

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DENTAL SCHOOL CALENDAR

1931.

Sept. 25,	*Friday.*	Registration of third and fourth year students.
Sept. 28,	*Monday.*	**Academic Year begins.** Registration of first and second year Students. Payment of the first instalment of the tuition-fee is required on this date.
Oct. 12,	*Monday.*	Columbus Day: a holiday.
Nov. 11,	*Wednesday.*	Armistice Day: a holiday.
Nov. 26,	*Thursday.*	Thanksgiving Day: a holiday.
Nov. 30,	*Monday.*	Payment of the second instalment of the tuition-fee is required on or before this date.

Recess from Dec. 23, 1931, to Jan. 2, 1932, inclusive.

1932.

Jan. 1,	*Friday.*	New Year's Day: a holiday.
Jan. 30,	*Saturday.*	**Second half-year begins.** Payment of the third instalment of the tuition-fee is required on or before this date.
Feb. 22,	*Monday.*	Washington's Birthday: a holiday.

Recess from April 3 to April 10, inclusive.

Apr. 19,	*Tuesday.*	Patriot's Day: a holiday.
Apr. 30,	*Saturday.*	Payment of the fourth instalment of the tuition-fee is required on or before this date.
May 2,	*Monday.*	Last day for receiving applications of candidates for the degree of D.M.D. in June, 1932.
May 30,	*Monday.*	Memorial Day: a holiday.
June 22,	*Wednesday.*	Alumni Day.
June 23,	*Thursday.*	**Commencement.**

Summer Vacation, from Commencement to September 25, inclusive.

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This Board is commonly known as the CORPORATION.

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DEPUTY TREASURER

JOHN WILBER LOWES, A.B. 24 Milk St., Boston

SECRETARY TO THE CORPORATION

FRANCIS WELLES HUNNEWELL, A.B., LL.B. 5 University Hall, Cambridge

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The PRESIDENT and the TREASURER of the University, *ex officio*, and the following persons by election: —

1932*

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6 Ash St., Cambridge

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THOMAS JEFFERSON COOLIDGE, A.B. 67 Milk St., Boston

1933

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EDWARD MALLINCKRODT, JR., A.M.
3600 North Second St., St. Louis, Mo.

ELLIOTT CARR CUTLER, A.B., M.D.
Lakeside Hospital, Cleveland, Ohio

1934

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JESSE ISIDOR STRAUS, A.B. 1317 Broadway, New York, N.Y.

MARK SULLIVAN, A.B., LL.B., LITT.D.
1700 I St., Washington, D.C.

LEVERETT SALTONSTALL, A.B., LL.B.
608 Shawmut Bank Building, Boston

* The term expires, in each case, on Commencement Day of the year indicated.

1935

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HENRY JAMES, A.B., LL.B. 36 W. 44th St., New York, N.Y.

WILLIAM TUDOR GARDINER, A.B., LL.D. Gardiner, Me.

1936

CHARLES FRANCIS ADAMS, A.B., LL.B.
Navy Department, Washington, D.C.

LEARNED HAND, A.M., LL.B., LL.D.
Old Post Office Building, New York, N.Y.

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St. Paul's School, Concord, N.H.

WALTER SHERMAN GIFFORD, A.B., LL.D., S.D.
195 Broadway, New York, N.Y.

ELIHU ROOT, Jr., A.M., LL.B. 31 Nassau St., New York, N.Y.

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14 Ashburton Pl., Boston

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FREDERICK WINSOR, A.B. Middlesex School, Concord

WILLIAM PHILLIPS, A.M., LL.D. 17 Commonwealth Ave., Boston

SECRETARY OF THE BOARD OF OVERSEERS

WINTHROP HOWLAND WADE, A.M., LL.B.
50 Congress St., Boston

DEPARTMENTS OF THE UNIVERSITY

The University comprehends the following departments: —

Harvard College,
Graduate School of Arts and Sciences,
Special Students,
Engineering School,
Theological School,
Law School,
Medical School,
Graduate Courses in Medicine,
Dental School,
School of Public Health,
Graduate School of Business Administration,
School of Architecture,
School of Landscape Architecture,
School of City Planning,
Graduate School of Education,
Bussey Institution,
Arnold Arboretum,
University Library,
University Museum,
Museum of Comparative Zoölogy,
Peabody Museum of Archaeology and Ethnology,
Botanic Garden,
Gray Herbarium,
Astronomical Observatory.

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Office, Lehman Hall, Cambridge. Office hours, daily, except Saturday, 9 A.M. to 5 P.M.; Saturday, 9 A.M. to 1 P.M.

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Office, Wadsworth House, Cambridge. Office hours, daily, except Saturday, 10 A.M. to 12 M., 4 to 5 P.M.

Medical Adviser: Paul Howard Means, A.B., M.D.
Office, Wadsworth House, Cambridge. Office hours, daily, except Saturday and Sunday, 8.30 to 9.30 A.M., 4.30 to 5.30 P.M.; Saturday, 8.30 to 9.30 A.M.

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Secretary for Student Employment: Russell Thornley Sharpe, S.B.
Office, L University Hall. Office hours, daily, except Saturday, 2 to 3 P.M.

THE DENTAL SCHOOL

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	ADDRESS†
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DAVID L. EDSALL, M.D., S.D., DEAN,	Harvard Medical School.
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ROBERT B. GREENOUGH, M.D., *Assistant Professor of Surgery*,	8 Marlborough St.

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Office, Room 101, Administration Building, Medical School. Office hours by appointment.

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Office, Harvard Dental School. Office hours, daily except Saturday, by appointment.

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Office, Harvard Dental School.

Assistant to the Dean: RICHARD L. HAPGOOD, A.B.
Office, Harvard Dental School.

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The Museum is in the Dental School Building. Office of the Curator, 29 Commonwealth Ave., Boston.

Librarian: STERLING N. LOVELAND, D.M.D.
The Library is in the Dental School Building. Office of the Librarian, 196 Marlborough St., Boston.

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THE DENTAL SCHOOL

BOSTON

GENERAL STATEMENT

The Harvard Dental School is established in Boston and was instituted by vote of the President and Fellows of Harvard College, July 17, 1867. The first session of the School opened on the first Wednesday in November, 1868, and continued until the following March. The first examination of candidates for the degree of the School was held March 6, 1869.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The programme of instruction is progressive, and occupies four years.

Anatomy, histology, physiology, chemistry (qualitative, volumetric, dental, organic and physiological), metallurgy, general pathology, oral anatomy and histology (normal and pathological), and bacteriology are pursued in the Harvard Medical School.

The degree of Doctor of Dental Medicine is given, on recommendation by the Faculty of Medicine, on the completion of the four years' course. The degree is given in three grades.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided. Clinical instruction is given by the professors and other instructors; and each day patients are assigned to the students, ensuring to all the opportunity of operating at the chair, and becoming trained by actual practice in all the operations demanded of the dentist.

The Administrative Board reserves the right to require the withdrawal of any student at any time whenever, in the opinion of the Board, it is manifest that he is incompetent for his work or for any reason he is unfitted to continue the course.

THE DENTAL BUILDING

The Dental School is situated at the corner of Longwood Avenue and Wigglesworth Street. The building has the latest hospital equipment and is used solely for hospital purposes. It contains a commodious infirmary, three operating rooms for oral surgery with connecting wards, prosthetic laboratory, X-ray laboratory, office of administration, library, museum, students' room and reception room.

It is connected by a subway with the Harvard Medical School buildings, where all medical courses are given.

ADMINISTRATIVE BOARD

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LAWRENCE W. BAKER, D.M.D., *Professor of Orthodontia.*

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PHILIP H. WHITE, A.B., D.M.D., *Assistant in Operative Dentistry.*

REQUIREMENTS FOR ADMISSION

Applicants for admission must present evidence, not only that they have passed the courses necessary to fulfill the requirements, but also that their college work has been of such character as to give promise of work of high quality in the dental course.

The minimum requirement for admission to the School consists of two years of instruction in an approved college of liberal arts and science, based upon the completion of a four year high school course (or, in the case of foreign students, an equivalent character of work).

A total college credit of at least sixty semester hours is required, including the following obligatory courses: *English*, *Physics*, and *Biology*; six semester hours each. *Chemistry*, twelve semester hours, including a course of four semester hours in Organic Chemistry.

The remaining subjects necessary to make up the required number of credits are elective.

Applicants must be entitled to honorable dismissal.

These requirements must be satisfied in full before matriculation.

Note. — A semester hour is one hour of lecture or recitation, or two hours of laboratory work, per week, for one half-year, or sixteen weeks.

ADMISSION TO ADVANCED STANDING

Students who have attended an approved dental school for one or more years, may be admitted to advanced standing and become candidates for the degree of D.M.D. under the following conditions: —

They must have fulfilled the requirements for admission.

They must have passed all of the subjects required of them in the school from which they come with a satisfactory rank, and must be entitled to a certificate of honorable dismissal.

They must present a record of the courses which they have already pursued, giving the subjects, the amount of time devoted to each, and the final grade received. The Committee on Admission will decide in each case whether examinations will be required.

Students are requested to apply for admission on blanks provided for the purpose, before July 1. All applications received on or after September 1 must be accompanied by the deposit of twenty-five dollars which will be returned if the application is not accepted. (See Fees and Expenses, page 57.)

VACCINATION

As every new student before being allowed registration in any department of the University must have presented a medical certificate of successful vaccination, such certificate should be included in his application for admission.

FOUR-YEAR COURSE

First Year

Chemistry, Qualitative and Volumetric . . . . . .
Dental Chemistry, Metallurgy, Organic and Physiological Chemistry
Physiology — Lectures and Laboratory . . . . . .
Histology — Lectures and Laboratory . . . . . .
Anatomy — Lectures and Laboratory . . . . . .
Dental Anatomy and Comparative Dental Anatomy — Lectures and Laboratory . . . . . .
General Hygiene — Lectures and Conferences . . . . .

Second Year

General Pathology — Lectures and Laboratory . . . . .
Bacteriology — Lectures and Laboratory . . . . . .
Operative Dentistry — Lectures, Demonstrations, Seminar, and Clinics (includes operative technique, odontexesis, and the use of plastic filling materials) . . .
Oral Hygiene — Lectures . . . . . .
Prosthetic Dentistry — Lectures, Demonstrations, and Technique . . . . . .
Materia Medica — Lectures . . . . . .
Radiography — Lectures . . . . . .

Third Year

Operative Dentistry — Lectures, Demonstrations, and Clinics (includes inlays and ceramics, gold foil, periodontia, and treatment of pulp involvments) . .
Therapeutics — Lectures . . . . . .
Prosthetic Dentistry — Lectures, Demonstrations, and Practice (includes crown and bridge technique) . .

Orthodontia — Lectures and Technique . . . . . .
Surgery and Surgical Pathology — Lectures . . . . . .
Oral Anatomy, Pathology and Histology — Lectures and Laboratory . . . . . .
Extracting and Anaesthesia Conferences . . . . . .
Physical Diagnosis — Lectures . . . . . .
Oral Medicine — Lectures . . . . . .
Syphilology — Lectures and Conferences . . . . . .
Radiography — Lectures, Demonstrations, and Clinics (in sections) . . . . . .

Fourth Year

Operative Dentistry — Lectures, Demonstrations, and Clinics (includes oral diagnosis and dentistry for children) . . . . . .
Orthodontia — Lectures and Clinics . . . . . .
Prosthetic Dentistry, including crown and bridge — Lectures, Demonstrations, and Clinics . . . . . .
Principles of Surgery — Oral Surgery — Lectures and Clinics . . . . . .
Clinical Oral Surgery — Lectures and Clinics . . . . . .
Conduct of Practice: Dental Jurisprudence: Ethics — Lectures . . . . . .
Extracting and Anaesthesia — Demonstrations, Lectures, and Clinics . . . . . .
Roentgenology — Clinics . . . . . .
Public Health Dentistry — Lectures . . . . . .

METHODS OF INSTRUCTION

Biological Chemistry

Otto Folin, Ph.D., Sc.D., *Hamilton Kuhn Professor of Biological Chemistry.*

Cyrus H. Fiske, M.D., *Associate Professor of Biological Chemistry.*

Harry C. Trimble, Ph.D., *Assistant Professor of Biological Chemistry.*

Milan A. Logan, Ph.D., *Instructor in Biological Chemistry.*

Irvin S. Danielson, S.M., *Teaching Fellow in Biological Chemistry.*

George A. Hitchings, S.M., *Teaching Fellow in Biological Chemistry.*

Samuel B. Nadler, A.B., *Teaching Fellow in Biological Chemistry.*

Norwood K. Schaffer, S.M., *Teaching Fellow in Biological Chemistry.*

Yellapragada Subba Row, Ph.D., *Research Fellow in Biological Chemistry.*

The course in chemistry for candidates for the degree in dental medicine consists of approximately one hundred and ten hours of classroom exercises and three hundred and thirty hours devoted to laboratory experimentation. The subject matter covered will include a variety of topics selected from the following specialized fields of chemistry:

Dental Metallurgy, including the inorganic chemistry of dental materials, the preparation of some representative alloys and methods for studying their properties.

Analytical Chemistry, sufficient to emphasize the fundamental principles involved in the separation, identification and quantitative measurement of the constituents of compounds. In the laboratory studies of the composition of substances used in dentistry are made, and the volumetric methods of analysis to be used later on as tools in Physiological Chemistry are learned.

Organic Chemistry, covering those types of carbon compounds which participate in physiological processes and their transformation products.

Physiological Chemistry, including the chemical aspects of the digestion and metabolism of the chief types of foods. At the conclusion there will be a series of exercises to measure the effect of variations in the diet upon the composition of certain body fluids.

Text-books. — Practical Dental Metallurgy, Hodgen. Qualitative Analysis, Noyes. Organic Chemistry, Conant. Fundamentals of Biochemistry, Parsons. Chemistry of Dental Materials, Gibson.

Reference Books. — Laboratory Methods of Biological Chemistry, Folin. Qualitative Analysis, Stieglitz. Solutions of Electrolytes, Hammett. Physiological Chemistry, Bodansky.

Anatomy

George B. Wislocki, M.D., *Parkman Professor of Anatomy.*
John L. Bremer, M.D., *Hersey Professor of Anatomy.*
Frederic T. Lewis, M.D., *James Stillman Professor of Comparative Anatomy.*
Robert M. Green, M.D., *Assistant Professor of Applied Anatomy* and *Instructor in Gynæcology.*
Harold L. Weatherford, Ph.D., *Assistant Professor of Histology.*
David M. Rioch, M.D., *Assistant Professor of Anatomy.*
Torr W. Harmer, M.D., *Instructor in Anatomy* and *Assistant in Surgery.*
Augustus S. Rose, S.B., *Teaching Fellow in Histology.*

The department of anatomy occupies the Morgan Anatomical Building; the dissecting rooms are in the wing designated B I; and the laboratories for histology, embryology, and anatomy of the nervous system, in the wing B II. In addition to the numerous classrooms, which are well lighted and thoroughly equipped, there are ample accommodations for advanced students, and unusual facilities are at the disposal of qualified investigators. Further information in regard to advanced or special studies may be had upon application to Professor Wislocki. The regular courses for dental students are described below.

Gross Anatomy. A systematic dissection of the human body occupies one-half of the student's time during the second half-year, alternating with the course in Microscopic Anatomy. For the study of the bones and joints, a box of bones and a skull are issued for the period of the course to each student. Frequent oral quizzes are given in the laboratory as the dissection progresses.

Text-books. — Cunningham's Anatomy, 5th edition revised, and Barker's Laboratory Manual of Human Anatomy.

	HOURS
Lectures, demonstrations, and dissections. Dr. Weatherford and Mr. Rose.	216

Microscopic Anatomy. — The first month is spent in a study of the cell, cell-division, and vertebrate embryology. Special attention is given to the development of the face, the tongue, and to the structures surrounding the oral cavity. The months of March, April, and May are devoted to the histology of the fundamental tissues and the organs, and to the gross and microscopic anatomy of the central nervous system. Throughout the course several quizzes of a practical nature, in the identification of tissues and organs, are given.

Text-books. — Patten's Embryology of the Chick and Pig, Bremer's Histology, and Ranson's Anatomy of the Nervous System.

Lectures, demonstrations, and laboratory work. Dr. Weatherford and Mr. Rose. 220

Dental Anatomy, Human and Comparative

Wilson C. Dort, D.M.D., *Assistant Professor of Dental Anatomy.*
Herbert I. Margolis, D.M.D., *Instructor in Dental Anatomy.*

First Year. — A study of the morphological aspects of the teeth; consideration of tooth development, investing structures, and temporo-mandibular articulation from a comparative standpoint; carving of teeth in plaster and ivory; study of pulp chambers and root canals, together with the comparative study of the fundamentals of occlusion.

HOURS

Lectures. Drs. Dort, Margolis, and Hooton. *During January and February.* 23

Demonstrations, laboratory exercises and quizzes. Drs. Dort and Margolis. *Three times a week during January; six times a week during February; once a week from March 1 to April vacation.* 133

Text-book. — Dewey, Dental Anatomy.

Collateral Reading. — Stillson, Quiz Compend on Dental Anatomy. Dewey and Thompson, Comparative Dental Anatomy. Todd, Mammalian Dentition. Hooton, Up from the Ape. Gregory, Our Face from Fish to Man.

Physiology

Walter B. Cannon, M.D., *George Higginson Professor of Physiology.*
Alexander Forbes, M.D., *Associate Professor of Physiology.*
Hallowell Davis, M.D., *Assistant Professor of Physiology.*
Percy G. Stiles, Ph.D., *Assistant Professor of Physiology.*
Philip Bard, Ph.D., *Assistant Professor of Physiology.*
Roy G. Hoskins, M.D., *Research Associate in Physiology.*
Magnus I. Gregersen, Ph.D., *Instructor in Physiology.*
Gordon C. Ring, Ph.D., *Instructor in Physiology.*
Chester W. Hampel, M.A., *Teaching Fellow in Physiology.*
J. Oliver Pinkston, A.B., *Teaching Fellow in Physiology.*
Norman E. Freeman, M.D., *Research Fellow in Physiology,* and *Fellow of the National Research Council.*
Reni Gayet, M.D., *Research Fellow in Physiology.*
Milton O. Lee, Ph.D., *Research Fellow in Physiology.*
Chester E. Leese, Ph.D., *Research Fellow in Physiology.*
Margaret MacK. Sawyer, Ph.D., *Research Fellow in Physiology* and *Fellow of the National Research Council.*

Robert A. Phillips, M.D., *Research Fellow in Physiology* and *Fellow of the National Research Council.*

Arturo Rosenblueth, M.D., *Research Fellow in Physiology.*

First Year. — The instruction in Physiology is based, as far as possible, on observations made by the students in laboratory experiments. The experiments are selected to impress the student with the methods and the most important facts in the various divisions of the subject. Physiological processes not readily observed in the laboratory the student learns with an insight derived from practical experience in experimentation. The arrangement of the experiments is in general such that the student first learns of what activity an organ or tissue is capable, next how certain factors condition or modify that activity, and finally what may be the effect of the activity. The experiments have also been so arranged as to place those with more general bearing first, and those with special interest later. Thus reference to previously acquired information becomes more and more possible as the course proceeds.

The amount of time devoted to laboratory exercises is approximately one hundred and sixty hours. Each student is required to preserve a record of his experiments and observations in a laboratory note-book, Cannon's "Laboratory Course in Physiology." These records are examined and criticized from day to day.

Observations of his own experiments by the student are supplemented by numerous special demonstrations. These exercises, some of which are performed by students under the direction of an assistant, are closely correlated with the other objective instruction. The function of the depressor nerve, motor localization in the cerebral cortex, the action of secretin and of enterokinase, and the effects of lymphagogues are examples of subjects which are demonstrated.

The facts observed in the laboratory and in the demonstrations are discussed in lectures. The lectures, about sixty in number, are informal discussions permitting questions by the students or by the instructor. In these discussions the laboratory experiments are correlated with one another and with the body of physiological knowledge.

In order that students shall review the work repeatedly as the course proceeds, and also that the instructors may judge the efficiency of the teaching, the class is divided into sections and quizzed orally every week by the instructing staff. At the end of each general division of the subject, as, for example, the nervous system, or the circulation, a written test is given. Usually five questions are asked; as examples the following are illustrative: What are the effects of stimulating the vasoconstrictor nerves of any particular organ? Cite morphological and physiological evidence for segmental arrangement of the nervous system. Discuss

cortical localization. The examination books are returned, corrected, to the students.

If in the quizzes and tests many students show that certain points are not clearly understood, these points are briefly discussed again before the class. If a student reveals by his answers general failure to grasp the subject intelligently, he is personally conferred with regarding the character of his work. Such conferences are held after the first six weeks of the course, and usually result in a better understanding between the instructor and the student, and frequently in a marked improvement in the student's efforts.

Text-books. — No special text-book is required, but the following books are recommended for reading in connection with the course: Starling, Human Physiology. Howell, Text-book of Physiology. Macleod, Physiology and Biochemistry. Bainbridge and Menzies, Essentials of Physiology.

October, November, December, and January.	HOURS
Laboratory experiments. Asst. Professor STILES and Mr. HAMPEL. *Mondays, Wednesdays, and Fridays in October, November, and January, daily except Saturdays in December.*	150
Quizzes (14). *One hour a week.*	12
Written tests (3). *One hour a month.*	3
Lectures (60). Asst. Professor STILES, and Mr. HAMPEL.	60
Special demonstrations. Mr. HAMPEL.	15

INVESTIGATION

Any student, properly qualified, who desires to engage in physiological research will be welcomed into the laboratory and will be offered every facility for research which the laboratory affords.

HYGIENE, ORAL HYGIENE, AND PUBLIC HEALTH

FRED W. MORSE, JR., B.S., M.D., *Instructor in Bacteriology.*

First Year. — A course of ten lectures and discussions on the problems of body efficiency and the prevention of disease. Physical examinations of the students are required. This course considers the normal functions of the body and its parts, leading to the study of the normal functions of the mouth in the second-year course on oral hygiene. Practical knowledge of the effect of exercise and play on bodily function is obtained in the gymnasium classes.

Second Year. — The course in Oral Hygiene, given in coöperation with the Department of Operative Dentistry, is planned to show in detail how the mouth is normally designed and operated and the various local and systemic factors involved in the development and maintenance of health

in the mouth, together with their correlations. Deviations from the normal design and function are studied to demonstrate how these deviations predispose to bacterial, chemical, and mechanical irritation in the mouth, producing disease.

The course is intended as a means of correlating, in the mind of the student, his science with clinical practice, so that he may understand the distinction between intelligent dentistry and mere technical skill.

Fourth Year. — In a course of lectures on Public Health, matters of special interest to the dentist are dealt with. Special emphasis is placed on the prevention of disease and the establishment of more normal living. Methods for the accomplishment of these desirable conditions are presented to the students.

First Year	hours
Lectures and conferences. Dr. Morse. *Once a week for ten weeks during the second half-year.*	10

Second Year	hours
Lectures. Dr. Morse, Dr. Cushman, and special lecturers. *Once a week for fifteen weeks, beginning in January.*	15

Fourth Year	
Lectures. Dr. Morse and special lecturers. *Once a week for eight weeks during the first half-year.*	8

Materia Medica, Pharmacology and Therapeutics

J. William O'Connell, D.M.D., *Assistant Professor of Materia Medica and Therapeutics.*

Second Year. — The course includes the study of drugs used in medicine; their sources, physical and chemical properties, constituents, preparations and doses.

Pharmacology, the science dealing with the action of drugs upon the tissues, organs, and functions of the body, is given special attention. At frequent intervals demonstrations on animals will be given, showing the pharmacologic action of the more important classes of drugs.

Toxicology, the study of poisons, their antidotes and antagonists, also the treatment in cases of poisoning, receive careful attention.

Prescription writing and the incompatibility of drugs are duly considered.

Third Year. — The use of drugs in pathological conditions, and the various methods of their administration, are described in detail. Particular attention is given to those which are of special interest to the dental

practitioner. All therapeutic means and measures are given due consideration.

Quizzes are held every three weeks throughout the year.

Text-books. — Prinz, Dental Materia Medica and Therapeutics. Stevens, A Textbook of Therapeutics, Including the Essentials of Pharmacology and Materia Medica (7th edition).

Collateral Reading. — Cushny, Pharmacology and Therapeutics. United States Pharmacopoeia. American Medical Association, New and Non-official Remedies.

Second Year

Materia Medica and Pharmacology. Lectures. Dr. O'Connell. *Once a week throughout the year.* 32

Third Year

Therapeutics. Lectures. Dr. O'Connell. *Once a week during the second half-year.* 15

Pathology

S. Burt Wolbach, M.D., *Shattuck Professor of Pathological Anatomy.*
Frank B. Mallory, M.D., *Professor of Pathology.*
Frederic Parker, Jr., M. D., *Assistant Professor of Pathology.*
Percy R. Howe, A.B., D.D.S., *Instructor in Pathology.*
Shields Warren, M.D., *Instructor in Pathology.*
Monroe J. Schlesinger, M.D., *Instructor in Pathology.*
Tracy B. Mallory, M.D., *Instructor in Pathology.*
Valy Menkin, M.D., *Instructor in Pathology.*
Henry Pinkerton, M.D., *Instructor in Pathology.*
James S. Rooney, M.D., *Instructor in Pathology.*
Irving B. Akerson, M.D., *Instructor in Pathology.*
Granville A. Bennett, M.D., *Instructor in Pathology.*
Arnold Branch, M.D., *Instructor in Pathology.*
George M. Hass, M.D., *Instructor in Pathology.*
Reuben Schulz, M.D., *Instructor in Pathology.*
Sidney Farber, M.D., *Instructor in Pathology.*
Ralph L. Irwin, M.D., *Assistant in Pathology.*

Required Courses

Second Year. — The course in Pathology consists of laboratory work and lectures. The basis of the laboratory work is a systematic course in pathological histology. In connection with this there are demonstrations of fresh material and museum specimens bearing on the subjects studied. For demonstrations the class is divided into small sections. The demonstrations are given in connection with the subjects which are being studied,

in rooms adjoining the main laboratory. Lectures are given three days in the week by Dr. Wolbach and other members of the Department. The object of the lectures is to expand and coördinate the knowledge which the student obtains by the study of material and to introduce important recent advances not yet incorporated in text-books. No attempt is made to separate the subject of Pathology into general pathology and pathological anatomy, but the subject is studied as a whole. The student is taught methods of work, is given material, and directed, but he is taught to work independently. Tumors and other material coming from the surgical clinics are made full use of in the course. Conferences and recitations will occasionally be substituted for regular laboratory work.

Second Year	hours
Lectures. Dr. Wolbach. *Mondays, Wednesdays, and Fridays, October through December.*	36
Laboratory work. Drs. Wolbach, Warren, Schlesinger, and Pinkerton. *Two and a half hours, Mondays, Wednesdays, and Fridays, during the forenoons of October through December.*	90

Bacteriology

Hans Zinsser, M.D., *Professor of Bacteriology and Immunology.*
Fred W. Morse, Jr., B.S., M.D., *Instructor in Bacteriology.*
George M. Lucey, D.M.D., *Assistant in Dental Hygiene.*
With the assistance of others of the Staff of the Department of Bacteriology of the Medical School.

Second Year. — Required bacteriology is taught by lectures and practical laboratory work. The lectures treat of the general subject and of methods of practical work. In the laboratory each student has an opportunity to become familiar with the simpler methods of manipulation and staining which are of especial clinical value, and with the more prominent of the pathogenic bacteria.

The microörganisms which are associated with dental disease and oral infections are particularly studied, and consideration given to the theories which have been advanced on the etiology of certain infectious processes in the mouth.

Opportunity is given to gain insight into the problems of immunity.

Second Year	hours
Lectures. Drs. Zinsser, Morse, and staff. *Tuesdays and Thursdays, October through January.*	32
Laboratory work. Dr. Morse and staff. *Two hours, Tuesdays and Thursdays, October through January.*	64

Oral Anatomy, Oral Histology and Pathology

Kurt H. Thoma, D.M.D., *Professor of Oral Pathology.*
Leonard D. Nathan, D.M.D., *Instructor in Oral Pathology.*
Frederick A. Trevor, D.M.D., *Instructor in Oral Pathology.*
Burton J. Gove, D.M.D., *Instructor in Oral Pathology.*

Third Year. — This course is given two afternoons a week during the first half of the year. It consists of lectures and laboratory exercises. The development of the face and mouth as well as the teeth and salivary glands is taken up first. This is followed by a microscopic study of the adult soft and hard tissues and organs of the mouth. After the student has been made familiar with the structure of the normal tissues, the various pathological conditions are studied.

The embryological, histological, and pathological work is principally taught by means of microscopic study, each student being furnished with a set of slides containing sections of all the normal tissues and organs of the oral cavity as well as of the various pathological conditions affecting them. From these drawings are made. The knowledge gained by a parallel study of the histology of healthy and diseased tissues is not only invaluable in diagnosis, but is extremely important in developing an understanding of medical and surgical therapeutic measures. The lectures are supplemented by the exhibition of lantern slides of microscopic sections and photographs and Roentgenograms of anatomical and pathological specimens and cases.

Collateral Reading. — Mummery, The Microscopic and General Anatomy of the Teeth, 2d edition. Orban, Dental Histology and Embryology. Bödecker, Dental Histology and Embryology. Price, Dental Infections, Oral and Systemic. Mead, Diseases of the Mouth. Hopwell-Smith, Normal and Pathological Histology of the Mouth, Vols. I and II. Thoma, Oral Roentgenology, 2d edition. Endelman, Dental Pathology.

Third Year	hours
Lectures and demonstrations. Dr. Thoma. *Twice a week for four months.*	32
Laboratory exercises. Drs. Nathan, Trevor, and Gove. *Twice a week for four months.*	64

Operative Dentistry

Frank H. Cushman, S.B., D.M.D., *Professor of Operative Dentistry*, and *Chairman of the Department.*
Frank T. Taylor, D.M.D., *Clinical Professor of Operative Dentistry.*
Amos I. Hadley, D.M.D., *Clinical Professor of Operative Dentistry.*

Martin B. Dill, A.B., D.M.D., *Clinical Professor of Operative Dentistry.*

Edwin C. Blaisdell, D.M.D., *Assistant Professor of Clinical Dentistry.*

Clarence B. Vaughan, D.M.D., *Assistant Professor of Clinical Dentistry.*

Harold E. Tingley, D.M.D., *Assistant Professor of Operative Dentistry.*

Leon E. Dulac, D.M.D., *Assistant Professor of Operative Dentistry.*

William D. Squarebrigs, D.M.D., *Instructor in Operative Dentistry.*

John T. Timlin, D.M.D., *Instructor in Operative Dentistry.*

David F. Spinney, D.M.D., *Instructor in Operative Dentistry.*

Charles G. Pike, D.M.D., *Instructor in Operative Dentistry.*

Eugene B. Wyman, D.M.D., *Instructor in Operative Dentistry.*

Ernest V. L. Whitchurch, D.M.D., *Instructor in Operative Dentistry.*

Roger B. Taft, D.M.D., *Instructor in Operative Dentistry.*

Sterling N. Loveland, D.M.D., *Instructor in Operative Dentistry.*

Morton F. Yates, D.M.D., *Instructor in Operative Dentistry.*

Charles B. Sawyer, D.M.D., *Instructor in Operative Dentistry.*

Chester L. Sandiford, D.M.D., *Instructor in Operative Dentistry.*

Clarence G. Severy, D.M.D., *Instructor in Operative Dentistry.*

B. Strout Stevens, D.M.D., *Instructor in Operative Dentistry.*

Ralph M. Towle, D.M.D., *Instructor in Operative Dentistry.*

Francis P. Devlin, A.B., D.M.D., *Instructor in Operative Dentistry.*

Raymond P. Cassidy, D.M.D., *Instructor in Operative Dentistry.*

Gordon Hall, D.M.D., *Instructor in Operative Dentistry.*

Paul B. LeBaron, D.M.D., *Instructor in Operative Dentistry.*

Joseph W. Nevins, D.M.D., *Instructor in Operative Dentistry.*

J. Gilbert Ray, D.M.D., *Instructor in Operative Dentistry.*

Harold C. Robinson, D.M.D., *Instructor in Operative Dentistry.*

Earle L. Bradway, D.M.D., *Instructor in Operative Dentistry.*

Cedric F. Harring, D.M.D., *Instructor in Operative Dentistry.*

Louis Miskell, D.M.D., *Instructor in Operative Dentistry.*

Lawrence W. Bowers, D.M.D., *Instructor in Operative Dentistry.*

Paul E. Boyle, D.M.D., *Instructor in Operative Dentistry.*

Arthur P. Young, D.M.D., *Instructor in Operative Dentistry.*

Bailey P. B. Chadbourne, D.M.D., *Instructor in Operative Dentistry.*

Elbert S. Godfrey, D.M.D., *Instructor in Operative Dentistry.*

Ralph B. Lancaster, A.B., D.M.D., *Instructor in Operative Dentistry.*

Mitsuta Manabe, D.D.S., D.M.D., *Instructor in Operative Technique.*

Peter A. Dempsey, D.M.D., *Instructor in Operative Dentistry.*

Victor I. Merriam, D.M.D., *Instructor in Operative Dentistry.*

Roger J. Edwards, D.M.D., *Instructor in Operative Dentistry.*

Lee O. Smith, D.M.D., *Instructor in Operative Dentistry.*
Donald F. McCloskey, D.M.D., *Instructor in Operative Dentistry.*
Harry S. Saidel, B.S., D.M.D., *Instructor in Operative Dentistry.*
Edwin M. Scribner, D.M.D., *Assistant in Operative Dentistry.*
Paul K. Losch, D.D.S., *Instructor in Operative Dentistry.*
Robert S. Wesson, D.M.D., *Assistant in Operative Dentistry.*
G. Earl Thompson, D.M.D., *Assistant in Operative Dentistry.*
G. Randolph Hubbard, A.B., D.M.D., *Assistant in Operative Dentistry.*
Winston C. Norcross, D.M.D., *Assistant in Operative Dentistry.*
Philip H. White, A.B., D.M.D., *Assistant in Operative Dentistry.*

In the course in Operative Dentistry the mouth is considered from its standpoint as a masticating organ and as part of the body as a whole. Instruction is given by means of lectures, demonstrations, class-room discussions and clinical practice. It is systematically distributed through the last three years of the course.

At the beginning of the Sophomore year, the student is given a general perspective of the various mouth conditions in health and disease; the progress already made and the means used, in maintaining a healthy oral mechanism; and the various fields in which investigation is needed. From this point to the end of the Junior year, both class-room and clinical instruction is aimed at grounding the student in the fundamentals of separate operative proeedures. For the first term, the principles of cavity preparation common for all types of restoration are taught by means of the preparation of cavities in plaster teeth and on the odontotype; and general infirmary procedures, such as use of rubber dam, wedges, operative instruments, etc., are shown. For the second and third terms, the class is assigned patients in the infirmary, where instruction is given in the theory and practice of the use of plastic filling materials and in odontexesis.

During the Junior year sections of the class take up the more advanced types of restoration of lost tooth substance, studying in both class-room and infirmary, foil fillings, inlays (both gold and porcelain), and the diagnosis and treatment of pathology of the pulp. Diseases of the periodontium are considered at length, early recognition of predisposing factors and the necessary corrective means being especially stressed.

In the Senior year an attempt is made to correlate, in the mind of the student, the various factors in the mouth leading to health and disease, so that a competent survey of the mouth as a whole can be made, and proper corrective treatment, where necessary, instituted. The relation of Oral to Systemic disease is shown.

The clinics are run in close coördination with the School Medical Clinics, and students are permitted to accompany their patients when referred thereto for systemic supporting treatment.

An organized group of small children for study and research in Pediodontia is available. Several children are assigned to each senior student for dental care throughout the year, and the student has opportunity for correlating the oral condition with the physical, through coöperation with the School Medical Clinic. Especial stress is placed on the importance of early treatment for the correction of mal-developments and the guiding of normal development of all the oral structures, as a means of establishing coördinations in those structures, leading to oral health in adult life.

Operative work and Orthodontia needed are conducted in the regular clinics under special instructors, so that comparison is possible with children showing the evil effects on coördination, and thus on health, of early neglect of physical conditions in general, and those of the mouth in particular.

The student is taught the importance of winning the child's confidence and instructing him in oral health measures to be carried out at home.

Text-books. — Students are required to purchase Sorrin and Miller's Practice of Periodontia; Woodbury's The Making and Filling of Cavities in the Proximal Surfaces of the Front Teeth with Gold Foil; and Hall's Pulpless Tooth Problems, in the Junior year and are urged to make frequent use of the library, which contains all the standard books on the subject, among these being the following: Black, Operative Dentistry. McGehee, Text-book of Operative Dentistry. American Text-Book of Operative Dentistry. Marshall, Operative Dentistry. Johnson, Text-Book of Operative Dentistry. Stillman and McCall, Clinical Periodontia.

SECOND YEAR HOURS

Lectures. Drs. TINGLEY and YOUNG. *Twice a week throughout the year.* 64

THIRD YEAR

Lectures. Drs. BRADWAY, YATES, DULAC, and YOUNG. *Twice a week during the first half-year; once a week during the second half-year.* 48

FOURTH YEAR

Lectures. Drs. CUSHMAN and LOSCH. Oral Diagnosis and Children's Dentistry. *Twenty-five lectures during the first half-year.* 25

SECOND, THIRD, AND FOURTH YEARS

Practical work. Drs. DILL, BLAISDELL, HADLEY, TAYLOR, CUSHMAN, VAUGHAN, SQUAREBRIGS, TIMLIN, SPINNEY, PIKE, WYMAN, WHITCHURCH, TAFT, LOVELAND, YATES, SAWYER, SANDIFORD, SEVERY, STEVENS, TOWLE, DEVLIN, CASSIDY, HALL, LEBARON, NEVINS, RAY, ROBINSON, TINGLEY, BRADWAY, DULAC, HARRING, MISKELL, BOWERS, BOYLE, YOUNG, CHADBOURNE, GODFREY, MANABE, DEMPSEY, MERRIAM, EDWARDS, SMITH, MCCLOSKEY, SAIDEL, SCRIBNER, LOSCH, WESSON, THOMPSON, HUBBARD, NORCROSS, and WHITE.

X-Ray Department. — Dwight M. Clapp Foundation

Earle C. Cummings, D.M.D., *Assistant Professor of Roentgenology.*
Frank E. Wheatley, A.B., M.D., *Instructor in Roentgenology.*
Frederick R. McGrail, D.D.S., *Assistant in Roentgenology.*
Harold A. Bratt, D.M.D., *Assistant in Roentgenology.*
George M. Lucey, D.M.D., *Assistant in Roentgenology.*
Albert C. Fallon, A.B., D.M.D., *Assistant in Roentgenology.*
Lawrence B. Smith, D.M.D., *Assistant in Roentgenology.*

The course in Oral Roentgenology comprises lectures, quiz-conferences, technical demonstrations, and clinical instruction. It begins in the second year with a technical consideration of the X-ray negative as a film product, and continues with an elementary study of X-ray interpretation.

In the Junior year, a series of lectures is presented in which all phases of the subject pertaining to dental practice are considered. These are supplemented by laboratory instruction in the form of technical and clinical demonstration, quiz-conferences, and an opportunity for clinical practice under the direct supervision of a departmental instructor, wherein the student is taught the technique of high grade negative production and its relationship to efficient X-ray diagnosis.

Throughout the Senior year, each student, in the rotation of daily assignment, assumes the responsibilities and duties of clinical assistant to the Department. He is also given advanced technical instruction, as well as guidance in clinical diagnosis. Additional opportunities for clinical practice are offered to Seniors only whereby their personally assigned cases may be handled by them under general supervision.

Collateral Reading. — Raper, Elementary and Dental Radiography. Raper, Radiodontia. McCoy, Dental and Oral Radiography. Simpson, The Technic of Oral Radiography. Thoma, Oral Roentgenology. Osgood, Teeth and Jaws. Ivy, Interpretation of Dental and Maxillary Roentgenograms. Browning, The Dental Radiogram. Pollia, Alveolo-Dental Radiology. Ennis, Dental Roentgenology.

Second Year	hours
Instruction Period. Dr. Cummings. *Once a week for thirteen weeks.*	13

Third Year

Quiz-Conferences. Dr. Cummings. *Once a week for twenty-eight weeks.*	28
Clinical Demonstrations and Practical Work. Dr. Cummings. *Daily throughout the year.* (One student to each clinical period.)	
Each student, about	54

Fourth Year

Technical Demonstrations, Clinical Practice and X-ray Diagnosis. Dr. Cummings, assisted by Drs. Wheatley, Bratt, McGrail, Lucey, Fallon, and Smith. *Daily throughout the year.* (One student to each clinical period.) Each student, about 54

Prosthetic Dentistry

Plate, Crown and Bridge Work

Fred A. Beckford, D.M.D., *Professor of Prosthetic Dentistry.*
Norman B. Nesbett, D.M.D., *Assistant Professor of Prosthetic Dentistry.*
Richard B. Smith, D.M.D., *Assistant Professor of Prosthetic Dentistry.*
Arthur M. Maloney, D.M.D., *Assistant Professor of Prosthetic Dentistry* and *Chairman of the Department.*
Arthur W. Hicks, D.M.D., *Instructor in Prosthetic Dentistry.*
Norman W. Swett, D.M.D., *Instructor in Prosthetic Dentistry.*
Henry J. Carney, D.M.D., *Instructor in Prosthetic Dentistry.*
John R. Wallace, D.M.D., *Instructor in Prosthetic Dentistry.*
Archie I. Fain, D.M.D., *Assistant in Prosthetic Dentistry.*
Raymond J. Nagle, D.M.D., *Instructor in Prosthetic Dentistry.*
P. Reginald MacKinnon, D.M.D., *Instructor in Prosthetic Dentistry.*
Levon K. Daghlian, D.M.D., *Assistant in Prosthetic Dentistry.*
Joseph H. Beck, D.M.D., *Assistant in Prosthetic Dentistry.*
John V. Blasi, D.M.D., *Assistant in Prosthetic Dentistry.*
Joseph P. Jazowski, D.M.D., *Assistant in Prosthetic Dentistry.*
J. Edgar Leach, D.M.D., *Assistant in Prosthetic Dentistry.*
William L. L. Moriarty, D.M.D., *Assistant in Prosthetic Dentistry.*
Maurice F. Draye, D.M.D., *Assistant in Oral Hygiene.*

The course in Prosthetic Dentistry extends from the second semester of the Sophomore year, through the Junior and Senior years.

During the Sophomore year and the first semester of the Junior year, the student is given a technical training in the construction of appliances used in prosthetic restorations. This includes a study of gold and its alloys, casting, soldering, heat treatment, and also a study of materials used, such as plaster, compound, investments, etc. He is also taught the use of an adaptable articulator and is required to use this instrument in all prosthetic restorations.

In the second semester of the Junior year and continuing throughout the Senior year, the student is given practical work in the clinic. Each student is required to complete satisfactorily a certain number of full denture, partial denture, and bridge restorations. By means of lectures and demonstrations the student is taught how to examine the mouth and

to diagnose different conditions found there. He is shown the necessity of making an accurate diagnosis in order to properly design appliances which will restore the mouth to a condition of health and function. Each day during the Senior year, a student is assigned with the instructor examining patients and he is given an opportunity to examine and diagnose cases. His decisions are checked by the instructor and corrections are made and explained.

In addition to the regular Prosthetic Clinic, there is a Surgical Prosthetic Clinic for the restoration of post-operative deficiencies. This work is carried on by the more advanced students and instructors and the completed cases are demonstrated so that all the students may see the methods of restoration.

Text-books. — Prothero, Prosthetic Dentistry. Campbell, Full Denture Prosthesis. Nichols, Prosthetic Dentistry. Kingsley, Oral Deformities. Kennedy, Partial Denture Construction. Peeso, Crown and Bridge. Doxtater, Crown and Bridge.

Second Year	hours
Lectures. Dr. Maloney. *Once a week during the second half-year.*	16
Demonstrations and Laboratory Practice. Drs. Maloney, Beck, Jazowski, Fain, and Draye. *Three times a week during January. Five times a week during the second half-year.*	276

Third Year	
Lectures. Drs. Beckford, Nesbett, Maloney, and Nagle. *Forty-two times throughout the year.*	42
Demonstrations and Laboratory Practice. Drs. Maloney, Blasi, Leach, and Fain. *Five times a week for twelve weeks during the first half-year.*	180
Clinics and Clinical Demonstrations. Drs. Beckford, Hicks, Swett, Wallace, Maloney, Nagle, MacKinnon, Beck, Jazowski, and Blasi. *Five times a week during January, and four times a week throughout the second half-year.*	252

Fourth Year	
Lectures. Drs. Beckford, Nesbett, and Smith. *Forty-eight times throughout the year.*	48
Demonstrations and Clinics. Drs. Beckford, Nesbett, Smith, Swett, Hicks, Carney, Wallace, Maloney, Nagle, MacKinnon, Beck, Jazowski, Blasi, and Leach. *Five times a week throughout the year.*	480

Orthodontia

Lawrence W. Baker, D.M.D., *Professor of Orthodontia.*

Earnest A. Hooton, Ph.D., B.Litt., *Associate Professor of Anthropology.*

Horace L. Howe, D.M.D., *Assistant Professor of Clinical Orthodontia.*
Adelbert Fernald, A.M., D.M.D., *Assistant Professor of Orthodontic Research.*
Fred R. Blumenthal, D.M.D., *Assistant Professor of Orthodontia.*
Frank A. Delabarre, D.D.S., M.D., *Associate in Orthodontia.*
Alfred P. Rogers, D.D.S., *Associate in Orthodontia.*
William J. Speers, D.M.D., *Instructor in Orthodontia.*
Louis M. Freedman, M.D., *Associate in Orthodontia.*
Ralph E. Gove, D.M.D., *Instructor in Orthodontia.*
Raymond L. Webster, D.M.D., *Instructor in Orthodontia.*
George N. Abbott, D.M.D., *Instructor in Orthodontia.*
Cleophas P. Bonin, D.M.D., *Instructor in Orthodontia.*
Ralph W. Short, D.M.D., *Instructor in Orthodontia.*
Shinji Fujishiro, D.D.S, D.M.D., *Instructor in Orthodontic Technique.*
Everett A. Tisdale, D.M.D., *Instructor in Orthodontia.*
Paul H. Newhall, A.B., D.M.D., *Assistant in Orthodontia.*

The course in Orthodontia begins in the second semester of the Junior year and extends through the Senior year, and is taught by lectures supplemented by both laboratory training and practical work in the infirmary. The instruction in the courses offered is based on the principle that orthodontia is a mechanico-biological process.

In the Junior year the class-room teaching consists of lectures which serve as an introduction to the biological and mechanical principles upon which the subject is based. The teaching of the mechanical principles and orthodontic technique in these lectures serves as a basis for the laboratory course.

In the laboratory the class is divided into small groups — the object being to give the student individual instruction in orthodontic technique and in the construction of the various types of appliances used in modern orthodontia.

In the Senior year applied orthodontia is the dominant feature. The school offers an unlimited supply of clinical material so that each student has the opportunity of treating two or more cases of malocclusion, under the supervision of a clinical teacher.

The Senior laboratory teaching and the Senior lecture courses are carefully correlated with this clinical work. The lectures of the second semester are planned to carry the student further with the biological principles considered in the Junior year, including preventive orthodontia and a course on the Evolution of the Human Head.

Text-books. — Angle, Malocclusion of the Teeth (Seventh Edition). Dewey, Practical Orthodontia (Fourth Edition). McCoy, Applied Orthodontia (Third Edition). Johnson's Operative Dentistry (Third Edition), Section xxxiii, by Herbert A. Pullen.

Collateral Reading. — Macewen, The Growth of Bone. Arthur Keith, Antiquity of Man. J. Arthur Thomson, Heredity. J. C. Brash, The Ætiology of Irregularity and Malocclusion of the Teeth.

Third Year	hours
Lectures. Dr. Blumenthal. *Once a week for eight weeks.*	8
Demonstrations and Laboratory Exercises in Orthodontic Technique. Drs. Tisdale and Fujishiro. *Three hours a week from February throughout the remainder of the year.*	48

Fourth Year	hours
Lectures. Drs. Baker, Howe, Fernald, and Blumenthal. *Once a week for twenty-four weeks.*	24
Dr. Hooton. *Once a week for four weeks.*	4
Clinics. Drs. Howe, Blumenthal, Gove, Abbott, Bonin, Fujishiro, and Tisdale. *Seven hours a week throughout October and November. Three hours a week throughout balance of year.*	140

Syphilology

Edward W. Karcher, M.D., *Instructor in Dermatology and Syphilology.*

Third Year. — The course consists of lectures and clinical instruction given at the Massachusetts General Hospital, Out-Patient Department.

Students have an opportunity to see extro-genital chancres and the common skin eruptions, also many of the rarer manifestations of syphilis in the mouth and throat and non-syphilitic lesions that may be mistaken for syphilis. There are many patients showing changes in the teeth and jaws due to congenital syphilis.

Ward patients are utilized for teaching where they show conditions of interest from a dental standpoint.

Colored plates, photographs and plaster models of interesting or unusual manifestations are also employed.

Each student attends four one and a half hour exercises.

	hours
Lectures and clinical instruction given during the first half-year.	Each student, 10

Surgery, Surgical Pathology, Oral Surgery, and Anaesthesia

Leroy M. S. Miner, D.M.D., M.D., *Professor of Clinical Oral Surgery.*

Varaztad H. Kazanjian, D.M.D., M.D., *Professor of Clinical Oral Surgery.*

Halsey B. Loder, A.B., M.D., *Lecturer on Surgery and Surgical Pathology.*

Walter V. MacGilvra, D.D.S., *Lecturer on Anaesthesia.*

Edwin L. Farrington, D.M.D., *Instructor in Extracting and Anaesthesia.*

Oliver P. Wolfe, D.M.D., *Instructor in Extracting and Anaesthesia.*

J. Campbell Thompson, D.M.D., *Instructor in Extracting and Anaesthesia.*

John A. Breen, D.M.D., *Instructor in Oral Surgery.*

Joseph A. Ring, D.M.D., *Instructor in Oral Surgery.*

Chester F. Wolfe, D.M.D., *Instructor in Extracting and Anaesthesia.*

David D. Bloom, D.M.D., *Instructor in Oral Surgery.*

J. Mark Smith, D.M.D., *Instructor in Extracting and Anaesthesia.*

F. Chester Durant, D.M.D., *Instructor in Oral Surgery.*

John H. Jaffar, D.M.D., *Instructor in Extracting and Anaesthesia.*

Frank H. Leslie, D.M.D., *Instructor in Extracting and Anaesthesia.*

Charles J. Smith, D.M.D., *Instructor in Oral Surgery.*

William J. Kenefick, D.M.D., *Instructor in Extracting and Anaesthesia.*

Russell S. Phillips, D.M.D., *Instructor in Extracting and Anaesthesia.*

Harold A. Carnes, D.M.D., *Instructor in Extracting and Anaesthesia.*

Harold A. Kent, D.M.D., *Instructor in Oral Surgery* and *Chairman of the Division of Extracting and Anaesthesia.*

Glenn W. Lawrence, D.M.D., *Instructor in Oral Surgery.*

Fred G. Rollins, D.M.D., *Instructor in Oral Surgery.*

Frederick A. Haley, D.M.D., *Instructor in Extracting and Anaesthesia.*

Albert F. Hickey, D.M.D., *Assistant in Extracting and Anaesthesia.*

Moses S. Strock, D.M.D., *Instructor in Oral Surgery.*

William A. Walsh, A.B., D.M.D., *Instructor in Extracting and Anaesthesia.*

Edgar L. Abt, D.M.D., *Instructor in Extracting and Anaesthesia.*

James C. Krasnoff, D.M.D., *Instructor in Extracting and Anaesthesia.*

Linwood H. Farrington, D.M.D., *Instructor in Extracting and Anaesthesia.*

Edward J. Durling, D.M.D., *Assistant in Extracting and Anaesthesia.*

Charles J. Cashman, D.M.D., *Assistant in Extracting and Anaesthesia.*

The course is arranged to develop a broad conception of general and oral surgery and the extraction of teeth.

Third Year.— A course of ten lectures in Physical Diagnosis is given during the first half-year covering general diagnostic methods and procedures. Lectures in Surgical Pathology begin in January, covering such general subjects as inflammation, suppuration, ulceration, necrosis, etc.

Demonstrations are given to small sections of the class, in which the fundamental problems of extraction are made clear. In these exercises students become familiar with forceps and lines of resistance in extracting and operate upon a dummy mounted with celluloid teeth.

Fourth Year. — Lectures on Principles of Surgery give the student a broad viewpoint of rules governing surgical procedures in general. These courses lead up to the lectures and demonstrations in Oral Surgery, together with clinics in the infirmary and hospitals. Clinics in dental and oral surgery are also held at the Massachusetts General Hospital with members of the teaching staff in attendance.

A course of lectures on extraction and nitrous oxide and oxygen anaesthesia is given, and practical instruction is given in the school clinic every day of the school year. Students are required to show proficiency in extraction and local anaesthesia in order to pass the examination in this department.

Text-books. — Da Costa's Modern Surgery. Brewer's Surgery. Warren, Surgical Pathology. Rose, Physical Diagnosis. Cabot, Physical Diagnosis. Brophy, Oral Surgery. Brown, Oral Surgery. Blair and Ivy, Essentials of Oral Surgery. Winter, Exodontia. Hewitt, Anaesthetics Fischer, Local Anaesthesia in Dentistry. Thoma, Oral Anaesthesia, Smith, Block Anaesthesia and Allied Subjects. Nevin and Puterbaugh, Conduction, Infiltration, and General Anaesthesia in Dentistry. Posner, Local Anaesthesia Simplified. Berger, Principles and Technique of the Removal of Teeth.

	THIRD YEAR	HOURS
Lectures.	Dr. MINER. *Once a week for ten weeks.*	10
	Dr. LODER. *Once a week for twenty weeks.*	20
Demonstrations.	Dr. KENT.	Each student, 6

	FOURTH YEAR	
Lectures.	Dr. MINER. *Once a week for twenty weeks.*	20
	Dr. KAZANJIAN. *Once a week for twenty weeks.*	20
	Dr. MACGILVRA. *Once a week for sixteen weeks.*	16
	Dr. KENT. *Once a week for eight weeks.*	8

Surgery Clinics. Drs. MINER, KAZANJIAN, KENT, SMITH, ROLLINS, and STROCK. *Twice a week throughout the year. Each student has about ten exercises.* 30

Extraction Clinics. Drs. MACGILVRA, E. L. FARRINGTON, O. P. WOLFE, J. M. SMITH, JAFFAR, LESLIE, KENEFICK, PHILLIPS, HALEY, WALSH, THOMPSON, C. F. WOLFE, CARNES, HICKEY, ABT, KRASNOFF, L. H. FARRINGTON, and CASHMAN. *Daily throughout the year. Each student has about ten exercises.* 30

M. G. H. Clinics. Drs. BREEN, RING, DURANT, LAWRENCE, BLOOM, and STROCK.

Oral Medicine

George H. Wright, D.M.D., *Clinical Professor of Oral Medicine.*

Third Year. — The consideration of the relationship of dentistry to medicine is brought out in a course by Dr. Wright, supplemented by lectures on endocrinology, diseases of the heart and kidney, and diabetes by the leading specialists in the Harvard Medical School.

Lectures. *Once a week during the first half-year.* 16

Seminars

George H. Wright, D.M.D., *Director.*

Third Year. — During the second half-year the Class is divided into small working groups of from two to five men each, to whom is assigned a definite subject for study under the direction of a tutor. Every second week students report in conference on the reading or laboratory work. Suggestions, evaluations and discussions of the various problems are considered. A complete essay or thesis is developed to indicate what the student has absorbed during three months of study. These papers are read before the entire group of men in the Junior Class, towards the end of the course.

Seminars. Dr. Wright and assistants. *Once a week during the second half-year.* 48

Conduct of Practice

Edwin N. Kent, D.M.D., *Lecturer on Conduct of Practice*

Fourth Year. — A course of lectures, with opportunities for discussion and consultation, covering the general subject of office organization and management and embracing the selection of location and equipment, record keeping, routine office procedure, development of personal efficiency, psychology of professional success, professional ethics, and dental jurisprudence.

The aim of the course is to assist in the development of a practical and useful professional life, and lectures are given to the Senior class during the last half-year.

Lectures. Dr. Kent. *Once a week for ten weeks.* 10

COURSES FOR GRADUATES

The object of the graduate courses is to enable graduates in dentistry to continue their studies along lines in which they may be interested. Attendance on such courses does not entitle a student to examination for the degree. A certificate of attendance will be furnished when desired to students who have satisfactorily completed the requirements of the courses attended.

The following courses are offered:

Orthodontia; a comprehensive course which familiarizes the student with modern methods of diagnosis and treatment of all types of malocclusion. Includes lectures, demonstrations, seminars and practical clinical experience. *Six mornings a week throughout the academic year.*

Oral Surgery; a clinical course, limited to four students. Includes lectures and clinics at the Dental School and various hospitals.

In addition to these courses, students may be admitted to other departments of the School, upon approval of the heads of the departments, for instruction in technical and clinical methods.

For further information in regard to graduate work, apply to the Dean's Office.

DENTAL RESEARCH

Percy R. Howe, A.B., D.D.S., *Thomas Alexander Forsyth Professor of Dental Science.*

Henry F. Libby, D.M.D., *Instructor in Dental Research.*

Arthur A. Libby, D.M.D., *Instructor in Dental Research.*

G. Pengwerne Matthews, D.M.D., *Assistant in Dental Research* and *Director of the Research Laboratory.*

The laboratories of the Department of Dental Research are located in the Medical School buildings and they offer facilities to members of the Faculty and to students who are interested in scientific investigation.

A director of the laboratory is in full time attendance to help and instruct workers in laboratory technique.

The laboratory works in coöperation with the clinical departments of the School in the compilation of scientific data from the wealth of material available. There is an increasing use of the laboratory by students in the checking up of their clinical procedures.

The investigation of biological problems of dental significance is undertaken in this development, and through the ready coöperation of the departments of the Medical School, much specialized help and advice may be obtained.

The Harriet Newell Lowell Society for Dental Research

In 1907, Miss Harriet Newell Lowell bequeathed to the Harvard Dental School a sum of money, the interest to be applied each year to dental research. In addition to the appointment of a special research worker and a research committee of five men, the Administrative Board formed the Harriet Newell Lowell Society for Dental Research. The object of the Society is to interest the students in research. Its president and a majority of its executive committee are students, and meetings

are held in the School building. A well-equipped research laboratory is open for the use of the students and teachers who are interested in scientific investigation.

Hermann B. F. Seyfarth, *President;* Maynard E. Cohen, *Vice-President;* David E. Hunn, A.B., *Student Treasurer;* Leo E. Mindel, *Student Secretary.*

Research Committee. — Dean Leroy M. S. Miner, D.M.D., M.D., *Chairman;* Lawrence W. Baker, D.M.D., *Treasurer;* G. Pengwerne Matthews, D.M.D., *Secretary;* Fred W. Morse, M.D.; Kurt H. Thoma, D.M.D.; Varaztad H. Kazanjian, D.M.D., M.D.; Fred R. Blumenthal, D.M.D.; Arthur P. Young, D.M.D.; Harold E. Tingley, D.M.D.

CLINICAL ADVANTAGES

The Dental School is established in Boston in order to secure those advantages for Clinical Instruction which are found only in large cities.

The clinics of the Dental Hospital afford an unlimited number of patients so that each student receives abundant practice in all branches of Dentistry.

At midycars of the second year, after finishing his technique work on the Odontotype, each student is assigned a chair in the Operative Infirmary and begins work on patients. Each student is required to operate eighteen hours a week throughout the second year; and fifteen hours a week throughout the third and fourth years.

Each student is assigned a bench in the Prosthetic Laboratory in the second year and is required to work in the Laboratory nine hours a week during January, and fifteen hours a week throughout the second half-year, and until January 1 of the third year. At this time patients are assigned and the student works in the Prosthetic Infirmary or the Laboratory fifteen hours a week during the remainder of the third year and throughout the fourth year.

University Dental Health Service, Stillman Infirmary. — Associated with the clinics of the Dental School, and in coöperation with the Department of Hygiene, is the Stillman Infirmary dental health service for Harvard College students and members of the graduate schools in the University. In addition to dental examinations of all Harvard College freshmen, the health service includes the supervision of their dental problems. This service is under the directorship of George P. Phillips, A.B., D.M.D., with the following members of the teaching staff: Morton F. Yates, D.M.D., Edward J. Durling, D.M.D., and Maurice F. Draye, D.M.D.

The Peter Bent Brigham Hospital. — This general hospital has been in active operation since February, 1913. The hospital is for general medical and surgical cases, and is situated on ground adjacent to the

Medical School buildings. Dr. Henry A. Christian, Hersey Professor of the Theory and Practice of Physic, and Dr. Harvey Cushing, Moseley Professor of Surgery, in the Harvard Medical School, have been appointed by the trustees of the Hospital Physician-in-chief and Surgeon-in-chief respectively. Dr. Harold A. Kent, Instructor in Oral Surgery in the Harvard Dental School, is Consulting Dental Surgeon.

The Massachusetts General Hospital.—Clinics are held in the Out-Patient Department in Medicine, Surgery, Dentistry, Children's Medical, Dermatology, Genito-Urinary, Laryngology, Orthopedics, and Syphilis. The following have been established: Anaphylaxis, Arthritis, Cardiac, Convalescent, Dental, Diabetic, Infantile, Industrial, Massage, Non-pulmonary Tuberculosis, Nutrition, Vaccine Treatment, and X-ray Treatment.

The Dental and Oral Surgery Clinic is open on the forenoons of Monday, Wednesday, and Friday and is administered by the following staff, several of whom teach in the surgical course at the Dental School:

Leroy M. S. Miner, D.M.D., M.D., Oral Surgeon and Chief of Dental Staff. Dental Surgeons: John A. Breen, D.M.D.; Joseph A. Ring, D.M.D.; F. Chester Durant, D.M.D.; Glenn W. Lawrence, D.M.D. Assistant Dental Surgeons: David D. Bloom, D.M.D.; Moses S. Strock, D.M.D.; Frederick A. Haley, D.M.D.; Harold A. Bratt, D.M.D.

Sections for clinical studies at the Nose and Throat Department. Wednesdays, Assistant Professor Wright.

The Children's Hospital.—The buildings of the Hospital are on Longwood Avenue, adjacent to the Harvard Medical School. Instruction in pediatrics, surgery and orthopedic surgery is given by members of the hospital staff. The dental clinic is administered by the following teachers in the Harvard Dental School: Dr. Leroy M. S. Miner, Professor of Clinical Oral Surgery is Consulting Oral Surgeon, with Dr. Fred R. Blumenthal, Assistant Professor of Orthodontia, Dr. Philip I. Johnson, and Dr. Everett A. Tisdale, Instructor in Orthodontia.

LIBRARIES AND MUSEUMS

The College Library at Cambridge is open to students, and also the Library of the Boston Medical Library Association, which has a dental section containing a large and very complete collection of dental literature. It includes the libraries of the American Academy of Dental Science and the Massachusetts Dental Society. There is a good reference library of modern books, including encyclopaedias, systems, etc. The Library is open daily, except Sundays and holidays, from 9 A.M. to 6 P.M. It is also open Tuesday and Friday evenings from 7 to 10, except during July and August.

The Dental School Library, Sterling N. Loveland, D.M.D., *Librarian*, contains about 3,675 especially selected volumes to which the students and graduates of the School have free access.

The Boston Public Library is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Bursar's office may also use this Library.

The Boston Medical Library, No. 8 The Fenway, one of the largest medical libraries in this country, is open to those who desire to consult medical literature, on week days from 9.30 A.M. to 10 P.M., on Saturdays till 6 P.M.

The Dental Museum, in charge of Adelbert Fernald, A.M., D.M.D., *Curator*, offers unusual facilities for study of the teeth. The pathological anatomy of the teeth is shown by more than 2,050 specimens, among which are dissected teeth showing formations of secondary dentine in the pulp cavity, and also many rare specimens showing the development of dental science. There are 1,000 specimens of human and comparative anatomy, illustrating a wide range of knowledge. Specimens have been arranged in chronological order and many new features have been added, including mineral ores most used by dentists, such as gold, silver, platinum, iron, copper, zinc, and mercury.

During the last year the Museum has acquired many valuable specimens, including models of mouths of the vegetable eaters of Yucatan which show deplorable and unsanitary conditions, as well as models of the mouths of the meat eaters of the extreme northern coast of Labrador, Baffin Land and Etah, which are nearly perfect. These models are very interesting for future study of these primitive people.

The Warren Anatomical Museum of the Harvard Medical School was founded in 1847 by John Collins Warren, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son to John Warren, the first Hersey Professor of Anatomy and Surgery. This important Museum is open to students in the School, and its collections are used in demonstration of the lectures.

The collection has over eleven thousand specimens, illustrating both normal and pathological anatomy. Students may have access to these specimens at any time upon application to the Curator.

Besides dissections and serial sections of many bones, the anatomical collection includes many corrosion preparations, plaster and papier maché models of bones, organs, and various parts of the body, and frozen sections.

The pathological collection is being constantly enlarged by the addition of numerous specimens, preserved in their natural colors.

Exhibits of specimens illustrating topics of special interest are made from time to time.

PHILLIPS BROOKS HOUSE

Harvard University

The Dental School Society, a branch of the Phillips Brooks House Association, represents the religious, philanthropic, and social interests among the students in the Harvard Dental School. Membership in the society is open to any student who is in sympathy with any one or more of these objects. The society maintains an information bureau at the opening of the college year, at which catalogues, pamphlets, maps, and lists of boarding houses investigated and approved by the school are furnished. It also organizes discussion groups and conducts meetings addressed by leading men in the dental profession, the main object of these meetings being to present the ethical side of the profession. The society is also planning to organize an employment bureau.

THE HARVARD UNION

During the summer of 1919 the Union was taken over by the University to be maintained as a club for its students. Its use is limited to its members. The membership fee is $10.00 annually. The house contains large pleasant living and reading rooms, a billiard room, and an excellent library of several thousand volumes. The restaurant furnishes a very good table at fixed prices for each meal. All house charges and membership fees are entered on the University term-bills. Application for membership should be made either to the Harvard Union, 8 Quincy Street, Cambridge, or to the Bursar's Office.

FELLOWSHIPS AND SCHOLARSHIPS

The Eugene Hanes Smith Scholarship. In 1920, in recognition of Dean Smith's twenty-five years of service to the Dental School, the Harvard Dental Alumni Association gave a sum of money for the establishment of a scholarship, to be known as The Eugene Hanes Smith Scholarship. The income from this fund will be awarded annually to a worthy and meritorious student in the third or fourth year of the Dental School, who has been a student in regular standing during the first and second years. The income may be divided between two students at the discretion of the Dental Committee on Scholarships.

The Alford Fund (1785); Mrs. Joanna Alford. With an income of $300, "to be used for scholarships for those students who are under low and indigent circumstances."

The Joseph Eveleth Scholarship; with an income of $250, founded by Joseph Eveleth of Boston and Watertown, Sheriff of Suffolk County from 1840 to 1855, except in 1853.

The Dwight M. Clapp Scholarship; with an income of one hundred and twenty-five dollars. Established in 1926 by the will of Clara Josephine Clapp in memory of her husband, Dwight M. Clapp, D.M.D. 1882. For a student born in Massachusetts, preferably one who has had a college education or training of a classical character, or who has such educational qualifications as are prescribed for admission to the Harvard Medical School.

Peter E. Strauss Scholarship with an income of five hundred dollars. Established in 1922, under the will of Emily R. M. Strauss of Boston, in memory of her husband.

The Thomas Alexander Forsyth Scholarship Fund (1929), with an income of seven hundred and fifty dollars, to be given each year to two worthy and deserving students in the Dental School who are desirous of becoming dentists and who have passed the requirements of scholarship, the income to be given to the same men until they have completed their course at the school.

The Robert T. Moffatt Fund, a loan fund established by Dr. Robert T. Moffatt of Boston for the benefit of deserving students who are in need of financial aid.

The Christian Soldier Fund; a loan fund established in 1924 by Miss Caroline F. Anderson, of Brookline, for the benefit of needy and deserving students.

The Alumni Loan Fund. The sum of four thousand three hundred and eighty dollars has been received from the Dental Classes of 1900, 1902, 1904, and 1905 to be used as a loan fund to aid any deserving students who require financial assistance.

The above scholarships apply to the Dental students only. Applications should be presented at the Dean's office on forms provided for the purpose, not later than January 1.

The Frederick Sheldon Fund for Travelling Fellowships. The income of this Fund is available for students in any Department of the University. For particulars see University Catalogue.

The Daniel A. Buckley Scholarships; with an income of two hundred and fifty dollars each, for graduates of the public schools of the city of Cambridge.

The Parker Fellowship. Established in 1873 in memory of John Parker, Jr., with an income of forty-five hundred dollars, for the instruction, education and maintenance of one or more students of eminent natural talents or genius for some one or more of the sciences taught in the University. Available for study at the University or in foreign countries.

The Charles Elliott Perkins Scholarships; three undergraduate scholarships and one graduate scholarship, with an income of four hundred and fifty dollars each. From a fund received in 1909, from Mrs. Charles Elliott Perkins, of Burlington, Iowa, "in trust for the establishment of scholarships in Harvard University for students from Iowa, the scholarships to be forever known and designated as the 'Charles Elliott Perkins Scholarships.'" The terms of the gift are further outlined in the University Catalogue.

The Princeton Fellowship; with a stipend of six hundred dollars. From a graduate of Princeton University, to be awarded to a graduate of that University studying in any department of Harvard University.

Franklin Reynolds (1929). John F. Reynolds. For students in any department of Harvard University who are natives of Marblehead, Massachusetts. Applications should be made to the President's Office on recommendation of the Dean of the school where the applicant is registered. Six, each six hundred dollars.

The William Stoughton Scholarship; with an income of twenty-one hundred and fifty dollars. One or more scholarships in any department of the University, from the income of the bequest under the will of Governor Stoughton, preference being given, first, to students of Dorchester, and second, if there be none such, to students of the town of Milton.

These scholarships and gratuities are awarded to such men among those applying for and needing assistance as give evidence of having done the best work either in this School or in a preparatory course elsewhere.

Application should be made to Dean C. H. Moore, Chairman of the Committee on General Scholarships and on the Sheldon Fund.

Students who have not been able to obtain scholarships often find time and opportunity to do outside work of various kinds in the city.

EXAMINATIONS

The final examination in every required subject is held at the close either of the first or of the second term of the school year. The examination, therefore, in every subject occurs once a year, but an opportunity to make up failures in examinations is offered at the opening of the school

year. The examination in certain studies of the first year is held at *mid-year* only, and is for those who are members of the School at the time, and for those entitled to apply for the degree, provided they have failed previously in those subjects. The *June examination* is only for those who are members of the School at the time, and for those entitled to apply for the degree. The *September examination* is for conditioned students, or for applicants for advanced standing. In some branches a portion of the examination consists of practical work in the laboratory.

The subjects in which examinations are held are as follows: —

First Year. — Physiology* (3 hrs.), Anatomy (3 hrs.), Histology and Embryology (3 hrs.), Chemistry* (3 hrs.), Dental Anatomy (2 hrs.), Hygiene (1 hr.).

Second Year. — General Pathology* (2 hrs.), Bacteriology* (2 hrs)., Operative Dentistry (3 hrs.), Oral Hygiene (2 hrs.), Materia Medica (2 hrs.), Prosthetic Dentistry (2 hrs.).

Third Year. — Operative Dentistry (3 hrs.), Therapeutics (1½ hrs.), Prosthetic Dentistry (3 hrs.), Surgery and Surgical Pathology (2 hrs.), Oral Anatomy and Histology* (2 hrs.), Orthodontia (1 hr.), Physical Diagnosis (1 hr.),* Medico-Dental Diseases* (1 hr.).

Fourth Year. — Prosthetic Dentistry (3 hrs.), Operative Dentistry (including Oral Diagnosis and Children's Dentistry) (3 hrs.), Orthodontia (2 hrs.), Principles of Surgery (2 hrs.), Clinical Oral Surgery (1 hr.), Extracting and Anaesthesia (2 hrs.), Radiography (1½ hrs.), Conduct of Practice (1 hr.), Public Health Dentistry (1 hr.).*

DEAN'S LIST

Seniors and Juniors whose work has been of sufficiently high grade may, upon recommendation of the Promotion Boards, be placed on the Dean's List. Membership on this list carries with it eligibility, at the discretion of the department heads, to devote, during the following semester, a portion of time from the clinical departments for independent work in some particular field of interest, under proper supervision.

The name of any student may be withdrawn from the List at any time, if he fails to maintain a standard of scholarship satisfactory to the Promotion Boards.

* The examinations in these subjects are held at the end of the first half-year.

REQUIREMENTS FOR THE DEGREE

The degree of Doctor of Dental Medicine (*Dentariae Medicinae Doctoris*) may be conferred upon any candidate of adult age, and of good moral character, who has passed *all the required examinations.* He must also give evidence of having studied Medicine or Dentistry in some recognized school four full years, the last continuous year of which must have been spent at this School.

The degree of Doctor of Dental Medicine *cum laude* will be given to candidates who have pursued a complete four years' course in this School and obtained not less than ninety per cent in Practical Operative and Prosthetic Dentistry and an average of ninety per cent or over in all other required examinations.

The degree of Doctor of Dental Medicine *magna cum laude* will be given to candidates who have pursued a complete four years' course in this School and obtained not less than ninety-five per cent in Practical Operative and Prosthetic Dentistry and an average of ninety-five per cent or over in all other required examinations.

The right to take the examinations, as well as the privilege of continuing membership in the School, is conditioned upon regular attendance upon lectures, infirmary practice, and laboratory exercises.

By vote of the Administrative Board, all students must have their mouths and teeth in a sound, healthy condition, in order to be eligible for the degree.

Candidates for the degree are obliged to apply for the same in writing, on blanks furnished at the Dean's office, on or before *May 1* of the year in which they propose to graduate.

INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own instruments, and appliances for both laboratory and operating room.

At mid-years of the first year a small number of instruments for use in the Prosthetic laboratory, costing about thirty dollars, are required.

At the beginning of the second year a list of instruments required for use in both the Operative and Prosthetic Departments is furnished by the School, and each student is required to provide himself with the instruments enumerated upon the lists before beginning his work. The cost of these instruments, including the dental engine, is about two hundred and eighty dollars.

The instruments required in the third year cost about one hundred and forty-five dollars. Additional instruments amounting to about twenty dollars are required in the fourth year.

A deposit of two dollars with the Dean of the Medical School will entitle a student to the use of a locker in the Medical School buildings during the first year.

A student who wishes to rent a microscope of the School can do so upon payment of six dollars a half-year.

FEES AND EXPENSES

A deposit of twenty-five dollars is required of every new student whose application for a place in the Dental School is accepted. This sum is to be applied on the first term-bill or to be forfeited if the student does not register. Students who make application prior to September 1st must make this deposit within two weeks after their applications are accepted; students who make application on or after September 1st are required to send the deposit of twenty-five dollars with their applications.

The tuition-fee is four hundred dollars, which includes all laboratory fees and will be charged on the term-bills in four instalments, as follows: One-fourth on a term-bill issued and payable September 28; one-fourth on a term-bill issued November 12 and payable November 30; one-fourth on a term-bill issued January 12 and payable January 30, and one-fourth on a term-bill issued April 12 and payable April 30. In addition students will be charged for any loss of material or breakage.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University until he is reinstated. Reinstatement is obtained only by consent of the Dean of the Department in which the student is enrolled, after payment of all indebtedness and a reinstatement fee of ten dollars.

Bills for miscellaneous charges will be rendered at the time the indebtedness is incurred.

All students doing less than full work and paying at the course rate will be required to pay each quarter in advance a sum equal to the fee for one course until their tuition-fee is paid in full.

All indebtedness to the University must be paid by all candidates for degrees at least one day before Commencement.

Students who are candidates for degrees in the middle of the academic year must pay all dues to the University at least one day before the day upon which the degrees are to be voted.

When a student's connection with the University is severed, all charges against him must be paid at once.

The student's general expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. A list of boarding places, at various prices, can be obtained at the Dean's office.

Every student is required to file with the Bursar on his entrance to the School a bond of *five hundred dollars*, executed by two sufficient bonds-

men, one of whom must be a citizen of the United States, or by a surety company duly qualified to do business in Massachusetts. No officer or student of the University is accepted as bondsman. Blank forms of bonds may be obtained from the Dean's office. Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School. *No degree can be conferred until all dues to the School are discharged.*

A student who leaves during the year is charged to the end of the tuition period in which he leaves, provided before that time he gives the Dean notice in writing of his withdrawal; otherwise he is charged to the end of the academic year or to the end of the tuition period in which such notice is given. The first tuition period begins at the beginning of the academic year and ends November 24; the second begins November 25 and ends at the end of the first half-year; the third begins with the second half-year and ends with the spring recess; and the fourth begins at the close of the spring recess and ends at Commencement.

Stillman Infirmary Fee

Not later than October 1 in each academic year, any student may pay to the Bursar the sum of ten dollars for the maintenance of the Stillman Infirmary; and, on the order of a physician, every student who has taken advantage of this opportunity will be given, in case of sickness, in return for the fee, a bed in a ward, board, and ordinary nursing for a period not exceeding two weeks in any one academic year.

TABULAR VIEW — 1931-32

FIRST YEAR — FIRST HALF-YEAR

Medical School

	SEPTEMBER–DECEMBER	JANUARY					
	Monday–Saturday	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
9–1	Chemistry, daily	Chem.	Dental Anatomy	Chem.	Dental Anatomy	Chem.	Chem. or Dental Anatomy
2–5.30	Sept. and Oct., Physiology, Mon., Wed., and Fri. Chemistry, Tues. and Thurs. Nov. and Dec., Physiology, daily except Saturday	Physiology, Mon., Wed., and Fri. Chemistry, Tues. and Thurs.					

FIRST YEAR — SECOND HALF-YEAR

	FEBRUARY	MARCH, APRIL AND MAY	
	Monday–Saturday	Monday–Friday	Saturday
9–1	Dental Anatomy	Anatomy, Mon., Wed., and Fri. Histology, Tues. and Thurs.	Dental Anatomy until Apr. 3
2–5.30	Embryology, daily except Saturday		

SECOND YEAR — FIRST HALF-YEAR, 1931–32

	SEPTEMBER–DECEMBER						JANUARY					
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
9–10	General Pathology	Oper. Dent. L.	General Pathology	Oper. Dent. L.	General Pathology	Materia Medica L	Prosthetic Dent. L. H. M. S. E–303	Oper. Dent. L. H. M. S. E–309	Radiography L. H. M. S. E–303	Oper. Dent. L. H. M. S. E–309	Oral Hygiene L. H. M. S. E–309	Materia Medica L H. M. S. E–303
10–1	H. M. S.	Oper. Tech.	H. M. S.	Oper. Tech.	H. M. S.	Oper. Tech.	Operative Dentistry					
2–5.30	Oper. Tech.	Bacteriology	Oper. Tech.	Bacteriology	Oper. Tech.		Pros. Tech.	Bacteriology	Pros. Tech.	Bacteriology	Pros. Tech.	

SECOND YEAR — SECOND HALF-YEAR

FEBRUARY–JUNE

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Prosthetic Dentistry L. H. M. S. E–303	Operative Dentistry L. H. M. S. E–309	Materia Medica L. H. M. S., E–303	Operative Dentistry L. H. M. S. E–309	Oral Hygiene L. until May 1 H. M. S. E–309	Radiography L. until April vacation E–303
10–1	Operative Dentistry					
2–5.30	Prosthetic Technique					

THIRD YEAR, 1931–32

SEPTEMBER–JANUARY

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Oper. Dent. L. H. D. S.	Physical Diagnosis L. 10 weeks H. M. S. E–303	Oper.* Dent. L. H. D. S.	Prosthetic Dent. L. H. D. S.	Radiography L. H. M. S. E–303 Surgical Pathology L. January 22 and 29	Oral Medicine L. H. M. S., E–309
10–1	Operative Dentistry Syphilology**	Oper. Dent. 3 weeks Prosthetic Tech. Beginning Oct. 20	Operative Dentistry	Operative Dentistry	Operative Dentistry Syphilology**	Prosthetic Tech. Syphilology**
2–5.30	Oral Pathology H. M. S.	Prosthetic Tech.	Prosthetic Tech.	Prosthetic Tech.	Oral Pathology H. M. S.	

FEBRUARY–JUNE

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Prosthetic Dent. L. H. D. S.	Radiography L. H. M. S. E–303	Prosthetic Dent. L. Orthodontia L. alternating H. D. S.	Surgical Pathology L. H. M. S., E–303	Therapeutics H. M. S., E–303	Operative Dent. Lect.* H. D. S.
10–1	Prosthetic Dent.	Operative Dent.*	Prosthetic Dent.	Prosthetic Dent.	Prosthetic Dent.	Operative Dent.*
2–5.30	Operative Dent.*	Orthodontia Tech.	Operative Dent.*	Operative Dent.*	Seminars	

* Class divided in 3 sections; Periodontia, Inlay, Gold Foil. ** Small sections of class.

FOURTH YEAR, 1931–32

SEPTEMBER–JUNE

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Prosthetic Dentistry L. H. D. S.	Oral Diagnosis L. 4 weeks Extracting and Anaesthesia L. 8 weeks Principles of Surgery L. H. M. S., E–309	Prosthetic L. alternating with Gas-Oxygen Anaesthesia L. H. M. S., E. 309	Orthodontia L. 24 weeks H. M. S., E–303	Oral Diagnosis L. 10 weeks Clinical Oral Surgery L. H. D. S.	Pediodontia 8 weeks Public Health Dentistry L. 8 weeks Conduct of Practice L., 10 weeks H. D. S.
10–1	Prosthetic Dentistry X-ray*	Prosthetic Dentistry Surgery* X-ray*	Prosthetic Dentistry X-ray*	Prosthetic Dentistry X-ray*	Prosthetic Dentistry Surgery* X-ray*	Orthodontia during October Operative, beginning Nov. 14 X-ray* Extracting*
2–4	Operative Dentistry X-ray* Extracting*	Operative Dentistry X-ray* Extracting*	Operative Dentistry X-ray* Extracting*	Operative Dentistry X-ray* Extracting*	Operative Dentistry X-ray* Extracting*	
4–5.30		Orthodontia		Orthodontia during October	Orthodontia after November 8	

* Class in small sections.

STUDENTS

Graduate Students

NAME	HOME RESIDENCE
Bissell, George DeForest, D.M.D. 1931.	*Melrose*
Frogel, Murray, D.M.D. (*Tufts Coll.*) 1930.	*Brooklyn, N.Y.*
Gleason, Frederick John, D.D.S. (*Temple Univ.*) 1924.	*Newton Highlands*
Gonzalez, Mario Victor (*Univ. of Buenos Aires*) 1931.	*Buenos Aires, Argentina*
Gullifer, William Harry, D.M.D. 1916.	*Belmont*
Hookway, Harold Henry, D.M.D. (*Tufts Coll.*) 1921.	*Boston*
Levitan, Julius Joseph, D.M.D. (*Tufts Coll.*) 1918.	*Dorchester*
Perry, Warren Buell, D.M.D. 1917.	*Brattleboro, Vt.*
Shapiro, Sidney, D.M.D. 1930.	*Unionville, Conn.*
Silver, Edward Israel, D.M.D. 1922.	*Brighton*

Fourth Year

Atwood, Theodore Winslow, A.B. (*Duke Univ.*) 1928.	*Durham, N.C.*
Canning, John Francis, PH.B. (*Providence Coll.*) 1927.	*Providence, R.I.*
Cohen, Maynard Edmond (*Tufts Coll.*).	*Dorchester*
Conway, Joseph Arthur (*Notre Dame Univ.*).	*Boston*
Eaton, Karl Bernard, A.B. (*Acadia Coll.*) 1931.	*Wolfville, N.S., Canada*
Flynn, William Henry, PH.B. (*Providence Coll.*) 1928.	*New Haven, Conn.*
Goodfleish, Herbert Louis, S.B. (*Coll. of the City of New York*) 1927.	*Hartford, Conn.*
Hickey, Maurice John (*Syracuse Univ.*).	*Syracuse, N.Y.*
Kirmayer, Thomas Dean, S.B. 1927.	*Grantwood, N.J.*
Lenoci, Ralph (*Villanova Coll.*).	*Port Chester, N.Y.*
Levinson, Tobias (*Harvard Coll.*).	*Somerville*
McGirr, Francis William, S.B. (*Hobart Coll.*) 1929.	*Saratoga Springs, N.Y.*
Moder, Arthur Alfred, S.B. (*Coll. of the City of New York*) 1928.	*New York, N.Y.*
Morrissey, Leonard Gerard, S.B. (*Boston Coll.*) 1923.	*Medford*
Musche, Frank Wilbur (*Tufts Coll.*).	*E. Dedham*
Nelson, Carl Truman (*Harvard Coll.*).	*Providence, R.I.*
Phipps, Wilbur Nelson (*Harvard Coll.*).	*Holliston*
Rafferty, Robert William, A.B. (*Univ. of Maine*) 1925.	*Willimantic, Conn.*
Ross, Alfred DeWitt (*Massachusetts Inst. of Technology*).	*Fitchburg*
Schmalz, Lester Otto (*Tufts Coll.*).	*E. Dedham*
Seyfarth, Hermann Berthold Fritz (*Harvard Coll.*).	*Boston*
Spacagna, Charles Angelo, A.B. (*Brown Univ.*) 1927.	*Providence, R.I.*
Sturgis, Edwin Albert, Jr. (*Tufts Coll.*).	*Belmont*

Third Year

Augustine, Anastas George, A.B. (*Middlebury Coll.*) 1929. *St. Ekaterina, Greece*
Bachmann, Werner Emil (*Tufts Coll.*). *Waltham*
Blake, Albert Cook, PH.B. (*Brown Univ.*) 1929. *Providence, R.I.*
Boyd, Gilbert Fisk (*Alfred Univ.*). *Weehawken, N.J.*
Bronson, Wingate Chaplin (*Amherst Coll.*). *Forest Hills, L.I., N.Y.*
DeMartini, Walter (*Coll. of William and Mary*). *Brooklyn, N.Y.*
Donahue, William Henry (*Providence Coll.*). *Auburn, R.I.*
Edwards, Norman Luther, A.B. (*Bates Coll.*) 1929. *Madison, Me.*
Etherington, James Winfred (*Tufts Coll.*). *Winthrop*
Gengras, Alfred Joseph, Jr. (*St. John's Coll., Md.*). *W. Hartford, Conn.*
Hunn, David Edward, A.B. (*Hamilton Coll.*) 1929. *Troy, N.Y.*
Laakso, William (*Clark Univ.*). *Gardner*
Lawrence, Richard Wason (*Univ. of New Hampshire*). *Manchester, N.H.*
McDowell, Joseph Lincoln (*Harvard Coll.*). *Tarrytown, N.Y.*
Marino, James Vincent (*Hobart Coll.*). *Jamaica, N.Y.*
Mindel, Leo Elias (*Rutgers Univ.*). *New Brunswick, N.J.*
Morinville, William Arthur (*Providence Coll.*). *Pawtucket, R.I.*
Nakashian, Samuel James (*Coll. of the City of New York*). *New York, N.Y.*
Nowland, William Frederick (*Bucknell Univ.*). *Utica, N.Y.*
Parsons, John Yarwood, A.B. (*Oberlin Coll.*) 1929. *Huntington, W. Va.*
Starbird, Kenneth Irving (*Syracuse Univ.*). *Binghamton, N.Y.*
Sullivan, George Arnold, A.B. (*Catholic Univ.*) 1929. *Newburyport*
Sullivan, Timothy Carroll (*Univ. of New Hampshire*). *Manchester, N.H.*
Tell, Meyer Edward (*Rutgers Univ.*). *Passaic, N.J.*
Wasgatt, Richard (*Univ. of Maine*). *Bar Harbor, Me.*
Weiner, Harry Allan, S.B. (*Boston Univ.*) 1928. *Chelsea*
Yaffee, Morris (*Syracuse Univ.*). *Glens Falls, N.Y.*

Second Year

Bishop, John Lloyd, A.B. (*Dartmouth Coll.*) 1930. *Nashua, N.H.*
Carbone, Frank Steven (*Univ. of Maine*). *Boothbay Harbor, Me.*
Carpenter, Russell Higson (*Brown Univ.*). *E. Providence, R.I.*
DiCrocco, Paul (*Georgetown Univ.*). *Dongan Hills, S.I., N.Y.*
Finn, Sidney Bernard, A.B. (*Ohio State Univ.*) 1930. *Rochester, N.Y.*
Gallahue, Stephen Carrier, A.B. (*Holy Cross Coll.*) 1930. *Dorchester*
Gates, Philip Armstrong (*Univ. of Vermont*). *Springfield*
Gilcreast, Alden Colgate (*Harvard Univ.*). *Lexington*
Grant, Henry Hichborn (*Univ. of Maine*). *Portland, Me.*
Herrling, Willard Samuel, Jr. (*St. Lawrence Univ.*). *Auburn, N.Y.*
Hill, Hans Bernhard (*Yale Univ.*). *Brooklyn, N.Y.*

Kroll, Louis (*Coll. of the City of New York*). *Brooklyn, N.Y.*
Lalor, Daniel James (*Providence Coll.*). *Millville*
Levitt, Nathan, A.B. (*Brown Univ.*) 1930. *Providence, R.I.*
Mangiaracina, Richard Constantine (*St. John's Coll., N.Y.*). *Brooklyn, N.Y.*
Manning, John Nowell (*Norwich Univ.*). *Waltham*
Miner, John Walter, B.S. (*Colby Coll.*) 1929. *Calais, Me.*
Nemec, Frank Albert (*Ohio Univ.*). *Cleveland, O.*
Pinel, Philip John (*Boston Univ.*). *Quincy*
Powitz, Aaron Alexander (*Bucknell Univ.*). *Newark, N.J.*
Reitman, Joseph, A.B. (*Boston Univ.*) 1930. *Dorchester*
Richards, Horace William Sowles (*Colby Coll.*). *Dorchester*
Ross, Milton Randolph (*Cornell Univ.*). *Newark, N.J.*
Stadt, Zachary Michlin, S.B. (*Univ. of Louisville*) 1930. *Brooklyn, N.Y.*
Svenson, Sven Oscar (*Wesleyan Univ.*). *Worcester*
Swallow, Donald Walcott (*Univ. of New Hampshire*). *Manchester, N.H.*
Thompson, Claude Weston, Jr. (*Harvard Univ.*). *Wilmington*
Torgan, Emerson Abe (*Rhode Island State Coll.*). *Providence, R.I.*
Troyard, Julian Charles (*Boston Univ.*). *Lansdale, Pa.*
Virkler, Stanley Bent, A.B. (*St. Lawrence Univ.*) 1930. *Castorland, N.Y.*

First Year

Baker, Joseph Michael (*Tufts Coll.*). *Brattleboro, Vt.*
Barrows, Fletcher Lawton, Jr. (*Massachusetts Inst. of Technology*). *Middleboro*
Barton, Roger Daniel (*Bates Coll.*). *Athol*
Bastey, Warren Walker (*Norwich Univ.*). *N. Weymouth*
Blum, Sidney, S.B. (*New York Univ.*) 1931. *Whitestone, N.Y.*
Boynton, John Wilson, Jr. (*Tufts Coll.*). *W. Medford*
Broderick, James Joseph (*Georgetown Univ.*). *Albany, N.Y.*
Carle, Clarke Albert, A.B. (*Holy Cross Coll.*) 1931. *Thompsonville, Conn.*
Diamond, Lewis Sewell (*Ohio Univ.*). *Brooklyn, N.Y.*
DiNoia, Ferdinand William (*Georgetown Univ.*). *Port Richmond, S.I., N.Y.*
Dwyer, Thomas Francis, A.B. (*Holy Cross Coll.*) 1931. *Providence, R.I.*
Ehleider, Charles Austin Jenness, A.B. (*Williams Coll.*) 1931. *Poughkeepsie, N.Y.*
Feleppa, Alfred Edward (*Coll. of the City of New York*). *Bronx, N.Y.*
Golden, Malcolm Harris, A.B. (*West Virginia Univ.*) 1931. *S. Norwalk, Conn.*
Goldman, Henry Maurice (*Brown Univ.*). *Dorchester*
Hannon, James Richard, A.B. 1931. *Jamaica Plain*
Hansis, Edward Siebert (*Dartmouth Coll.*). *Needham*
Kelley, Crosby Bruce (*Harvard Univ.*). *Winchester*
Leveton, Albert Aaron (*Yale Univ.*). *New Haven, Conn.*
Lewis, Samuel (*Coll. of the City of New York*). *Brooklyn, N.Y.*

Loftus, Edward Roland (*Massachusetts Inst. of Technology*). *Milton*
Maddock, Edmund Ellsworth, A.B. (*Boston Coll.*) 1931. *Charlestown*
Michelson, George (*Massachusetts Agricultural Coll.*). *Dorchester*
Moore, Charles Ellis, Jr. (*St. John's Coll., N.Y.*). *Brooklyn, N.Y.*
Nowald, Franklin, A.B. (*Emmanuel Missionary Coll.*) 1925. *W. New York, N.J.*
Oskar, John, S.B. (*Tufts Coll.*) 1931. *Lawrence*
Parker, Theodore Rich (*Univ. of Alabama*). *New York, N.Y.*
Parr, James McClintock, S.B. (*New York Univ.*) 1931. *Newburgh, N.Y.*
Remorino, Victor Adrian (*St. Lawrence Univ.*). *Watertown, N.Y.*
Riccardo, Armand Joseph, S.B. (*St. John's Coll., N.Y.*) 1931. *Brooklyn, N.Y.*
Rose, Louis Paul (*Tufts Coll.*). *New Rochelle, N.Y.*
Rosenson, Herbert James (*Massachusetts Agricultural Coll.*). *Revere*
Sunderhaft, Paul Francis, 2d (*Brown Univ.*). *Lowville, N.Y.*
Szekely, Richard Arthur (*Bucknell Univ.*). *Hillside, N.J.*
Tapley, George Otis, S.B. (*Tufts Coll.*) 1931. *Brookline*
Wheeler, Douglas Hewlitt (*Colby Coll.*). *Millinocket, Me.*
Winkler, Louis Benedict, S.B. (*Univ. of New Hampshire*) 1924. *Exeter, N.H.*

Unclassified

Harte, Leslie Patrick, L.D.S., R.C.S. (*England*) 1931. *London, England*
McGuirl, Hubert Anthony (*Providence Coll.*). *Providence, R.I.*

SUMMARY

Graduate Students	10
Fourth-Year Students	23
Third-Year Students	27
Second-Year Students	30
First-Year Students	37
Unclassified Students	2
Total	129

ANNOUNCEMENT FOR 1932–33

Registration of students for the academic year 1932–33 begins in the Dental School, 188 Longwood Avenue, on Friday, September 23, and all Juniors and Seniors are required to register on that day. Freshmen and Sophomores are expected to register on or before Monday, September 26.

CALENDAR

1932.

Sept. 23,	*Friday.*	Registration of third and fourth-year students.
Sept. 26,	*Monday.*	**Academic Year begins.** Registration of first and second-year Students. Payment of the first instalment of the tuition-fee is required on this date.
Oct. 12,	*Wednesday.*	Columbus Day : a holiday.
Nov. 11,	*Friday.*	Armistice Day : a holiday.
Nov. 24,	*Thursday.*	Thanksgiving Day : a holiday.
Nov. 30,	*Wednesday.*	Payment of the second instalment of the tuition-fee is required on or before this date.

Recess from Dec. 23, 1932, to Jan. 2, 1933, inclusive.

1933.

Jan. 2,	*Monday.*	New Year's Day : a holiday.
Jan. 30,	*Monday.*	Payment of the third instalment of the tuition-fee is required on or before this date.
Jan. 30,	*Monday.*	**Second Half-year begins.**
Feb. 22,	*Wednesday.*	Washington's Birthday : a holiday.

Recess from April 2 to April 9, inclusive.

Apr. 19,	*Wednesday.*	Patriots' Day : a holiday.
May 1,	*Monday.*	Payment of the fourth instalment of the tuition-fee is required on or before this date.
May 1,	*Monday.*	Last day for receiving applications of candidates for the degree of D.M.D. in June, 1933.
May 30,	*Tuesday.*	Memorial Day : a holiday.
June 21,	*Wednesday.*	Alumni Day.
June 22,	*Thursday.*	**Commencement.**

Summer Vacation, from Commencement to Sept. 24, inclusive.